

## ABSTRACT OF DISCLOSURE

An optical signal converter and a method of controlling an amplification gain according to a rotating speed of an optical disc. An optical signal detector detects an optical signal reflected from an optical disc in a reproduction mode and converts the detected optical signal into an electrical signal. A gain control signal generator generates a gain control signal when a voltage level of a driving signal used to drive the optical disc exceeds a maximum output voltage of the optical signal converter. A gain switcher selects an amplification gain of the optical signal converter in response to the gain control signal and an external control signal. A signal amplifier amplifies a signal output from the optical signal detector in response to an output signal of the gain switcher.